

Fig. 2

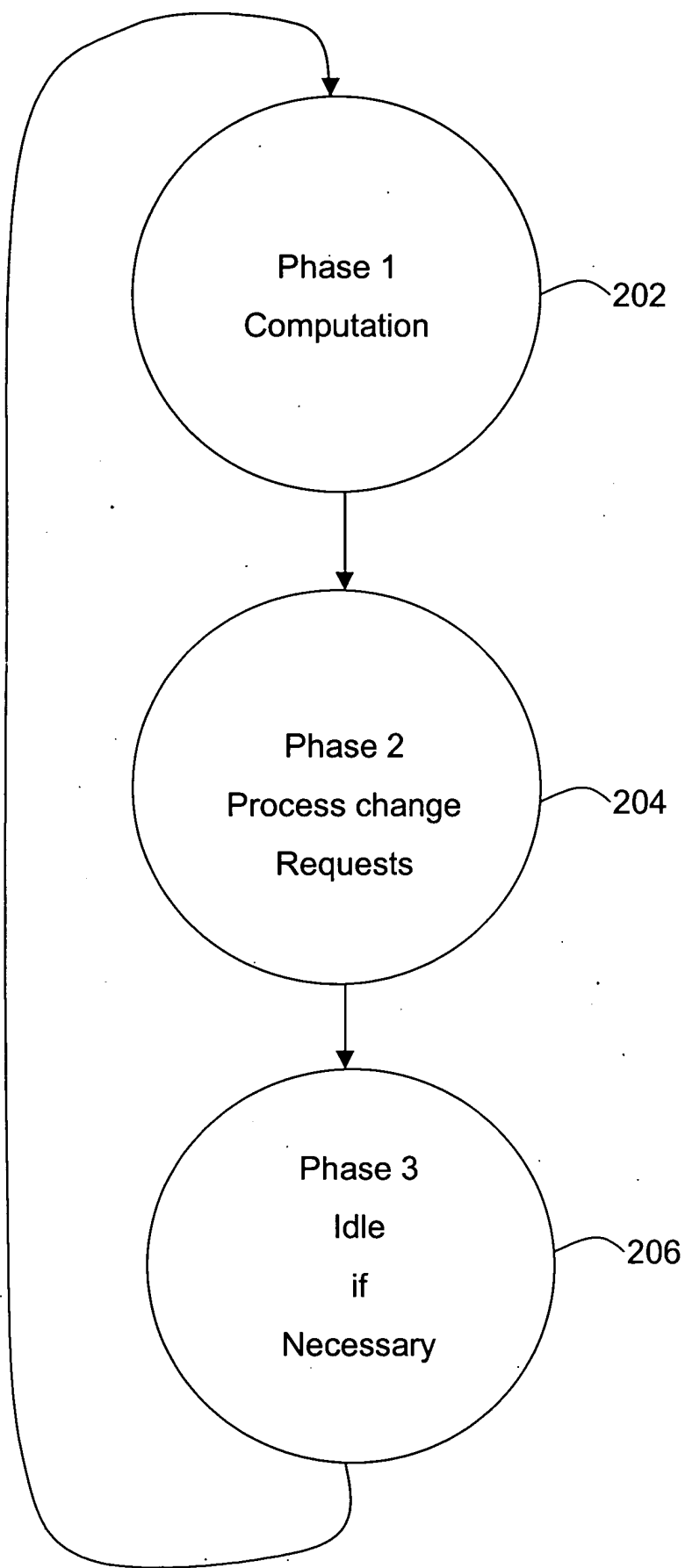
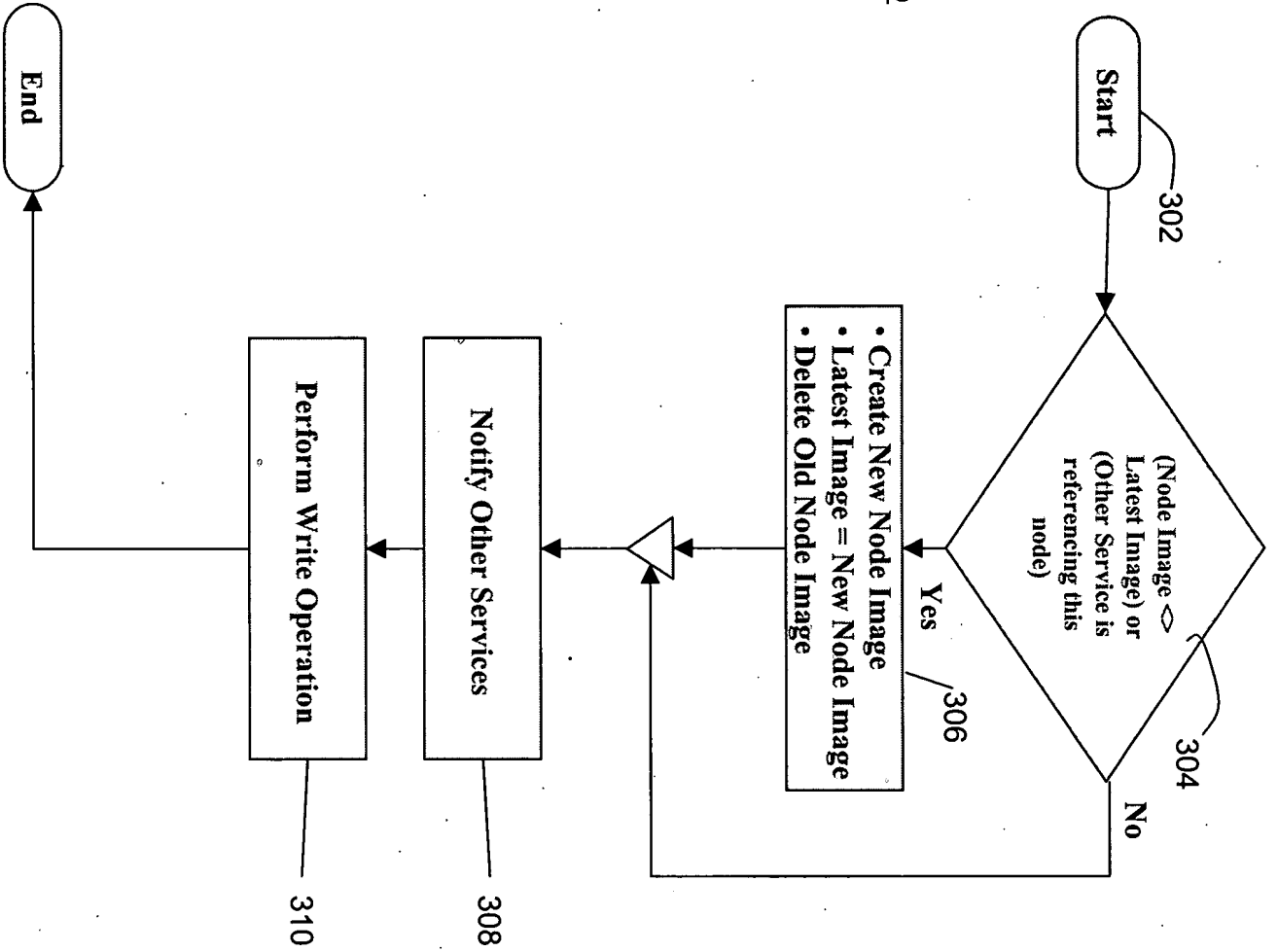


Fig. 3



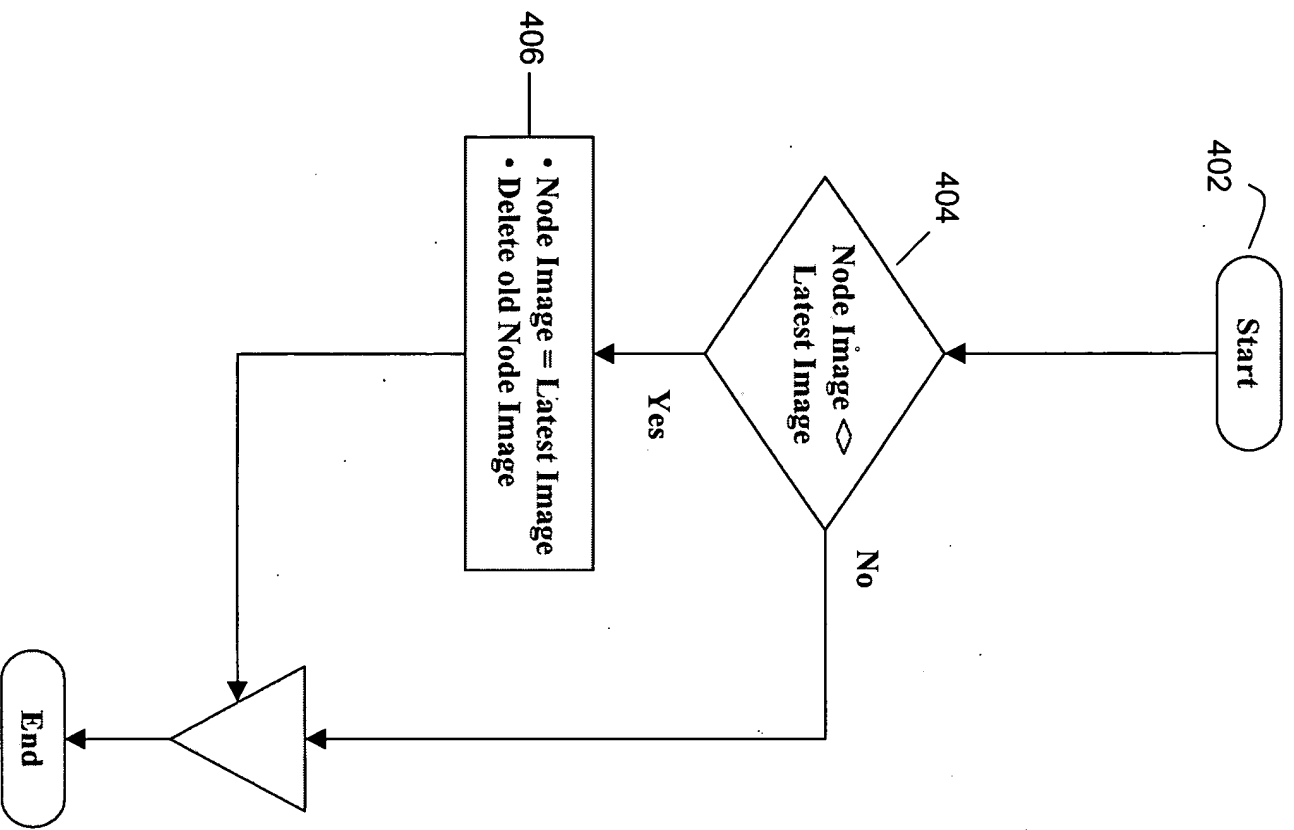


Fig. 4

Attributes are read by Services, Attributes are written indirectly by creating write operations which are performed by a single unique Service, the Simulation Service. The process of updating attributes is "frame safe". Each Service can be running at a different "frame rate".

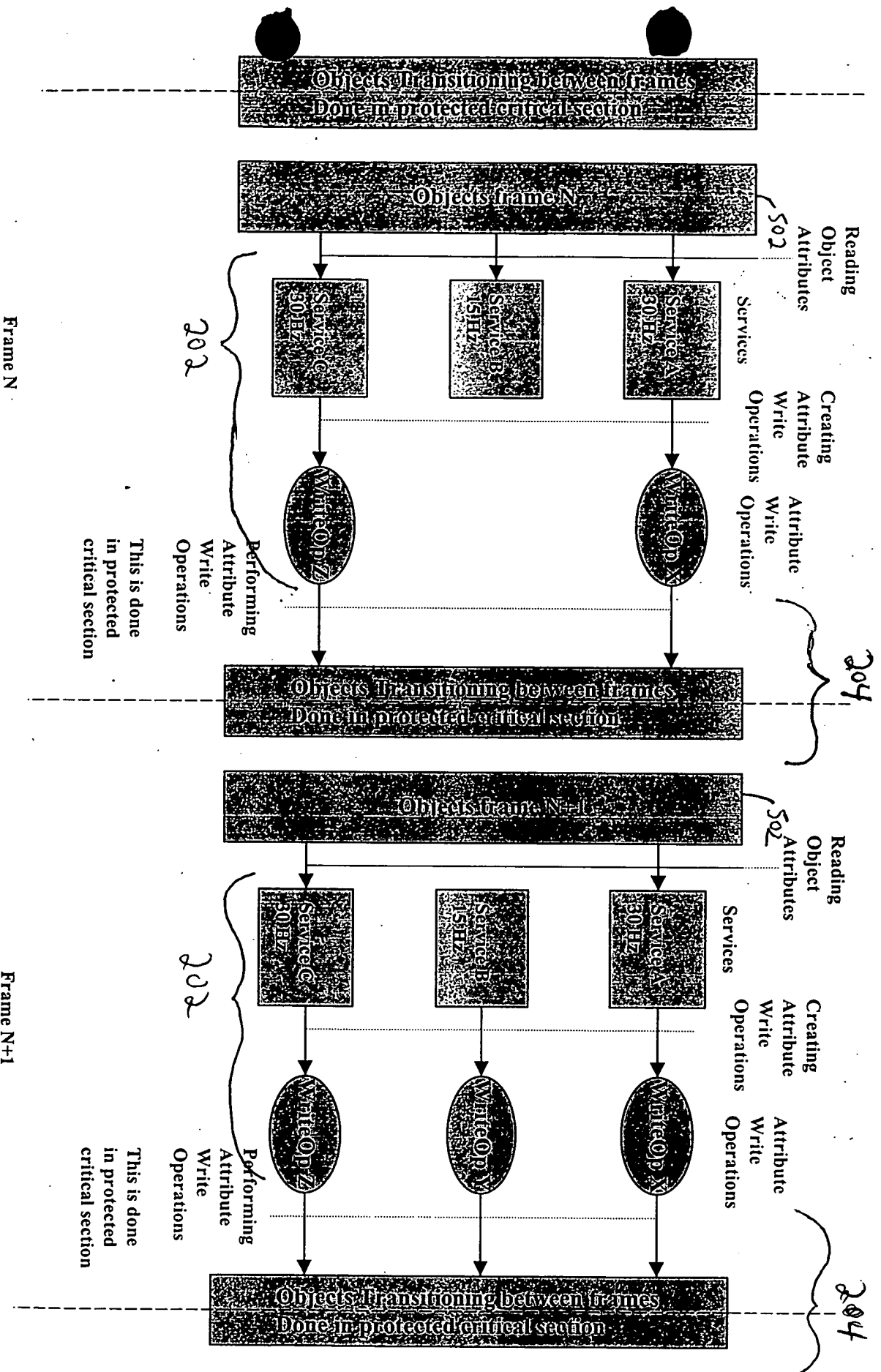


Fig. 5

Fig. 6

Services are running at independent frame rates (using different periodic time).
Each Service is running in a separate thread

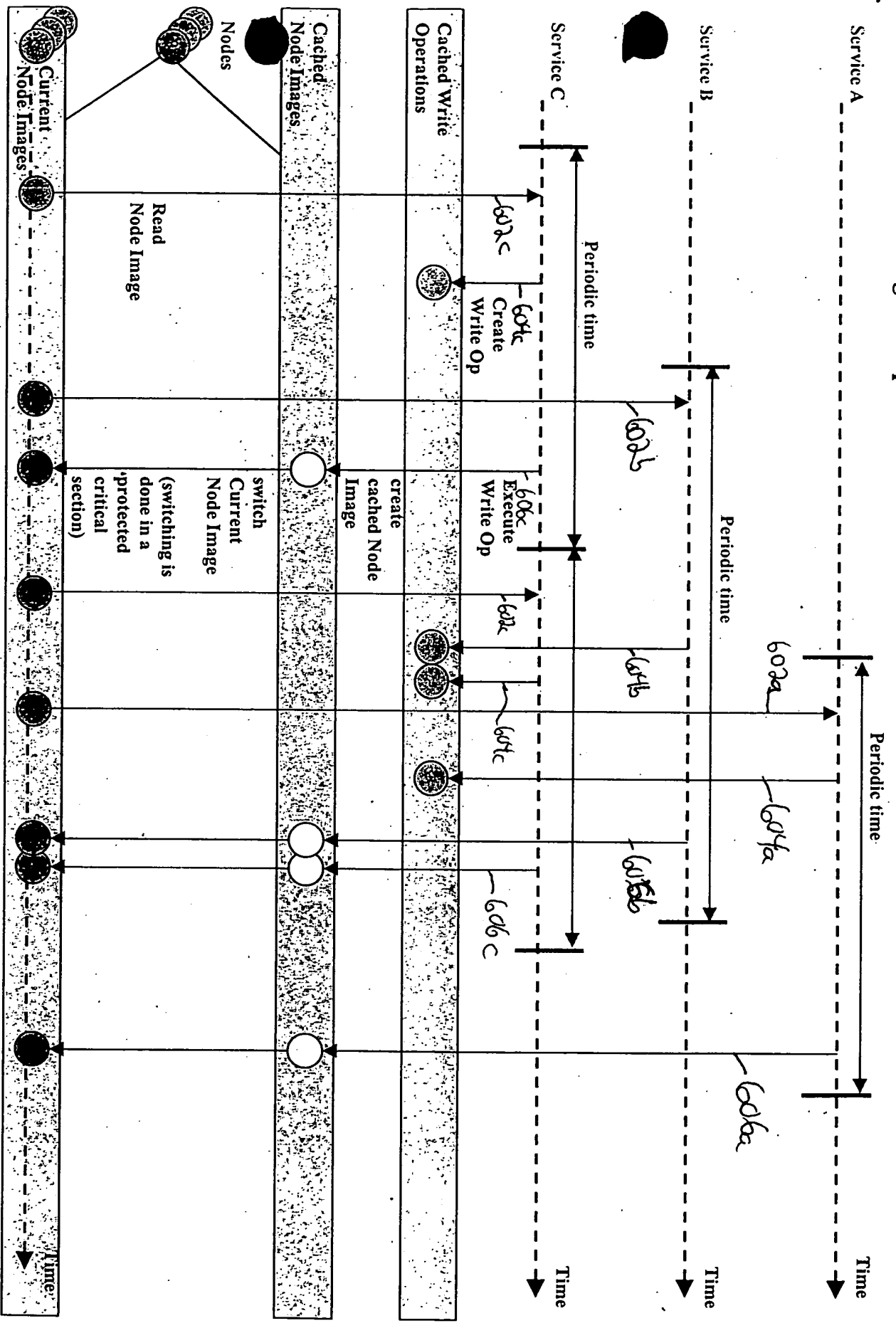


FIG. 6 is a diagram illustrating the execution of three services (A, B, and C) over time, each with its own periodic frame rate. The timeline is divided into three main horizontal tracks: Service A, Service B, and Service C. Each track shows a series of periodic intervals marked by vertical dashed lines. The time axis is labeled Time at the bottom of each track.